

MNSTPSKLLPIDKHSHLQLQPQSSSASIFNSPTKPLNFPRTNSKPSLDPNSSSDT
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ASPKKVAFTVTNPEIHHYPDNRVEEEDQSQQKEDSVEPPLIQHQWKDPSQFNYS
DEDTNASVPPTPPLHTTKPTFAQLLNKNNEVNSEPEALTMKCLKRENFSNLSLDE
KVNLYLSPTNNNNNSKNVSDMDSHLQNLQDASKNKTNENIHNLSFALKAPKNDIEN
PLNSLTNADISLRSSGSSQSSLQSLRNDNRVLESVPGSPKKVNPGLSLNDGIKGF
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DNIKVKQEPKSNLEFVKVTIKKEPVSAEIKAPKREFSSRILRIKNEDEIAEPADIHP
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DREDNDDISRFKESDILNDVSQTSDIIGDKYGNSSSEITTKTLAPPRSDNNDKENS
KSLEDPANNESLQQQLEVPHTKEDDSILANSSNIAPPEELTLPVVEANDYSSFND
VTKTFDAYSSFEESLSREHETDSKPINFISIWHKQEKQKKHQIHKVPTKQIIASYQQ
YKNEQESRVTSQKVKIPNAIQFKKFKEVNVMSRRVSPDMDDLNVSQFLPELSE
DSGFKDLNFANYSNNTNRPRSFTPLSTKNVLSNIDNDPNVVEPPEPKSYAEIRNA
RRLSANKAAPNQAPPLPPQRQPSSTRSNSNKRVSFRVPTFEIRRTSSALAPCD
MYNDIFDDFGAGSKPTIKAEGMKTLPMDKDDVKRILNAKKGVTQDEYINAKLVD
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PTALLSADRLFMEQEVHPLRSNSVLVHPGAGAATNSSMLPEPDFELINSPARNVS
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KPKKSFQGNEISNHKVRDGGISPSSGSEHQHNPSMVSVPVPSQYTDATSTVPDE
NKDVQHKPREKQKQKHHHRHHHHHHKQKTDIPGVVDDEIPDVGLQERGKLFRR
VLGIKNINLPDINTHKGRFTLTLDNGVHCVTTPPEYNMDDHNVAIGKEFELTVADSL
EFILTLKASYEKPRGTLVEVTEKKVVKSRNRLSRLFGSKDIITTKFVPTVEVKDTWA
NKFAPDGSFARCYIDLQQFEDQITGKASQFDLNCFNWETMSNGNQPMKRGKP
YKIAQLEVKMLYVPRSDPREILPTSIRSAYESINELNNEQNNYFEGYLHQEGGDC
PIFKKRFFKLMGTSLLAHSEISHKTRAKINLSKVVDLIYVDKENIDRSNHRNFSVL
LLDHAFKIKFANGELIDFCAPNKHEMKIWIQNLQEIIYRNRFRRQPWWNLMLQQQ
QQQQQQQSSQQ

FIGURE 1

1 cccaaaaaag ataaaaataaa aacaaaaacaa aacaaaaagta ctaacaaatt attgaaactt
61 ttaattttta ataaagaatc agtagatcta ttgttaaag aatgaactc aactccaagt
121 aaattattac cgatagataa acattctcat ttacaattac agcctcaatc gtctcggca
181 tcaatattta attccccaac aaaaccattg aatttcccca gaacaaattc caagccgagt
241 ttagatccaa attcaagctc tgatacctac actagcgaac aagatcaaga gaaagggaaa
301 gaagagaaaa aggacacagc ctttcaaaca tctttgata gaaatttga tcttgataat
361 tcaatcgata tacaacaaac aattcaacat cagcaacaac agccacaaca acaacaacaa
421 ctctcacaaa ccgacaataa ttaattgat gaattttctt tcaaacacc gatgactcg
481 actttagacc taaccaagca aaatccaact gtggacaaag tgaatgaaaa tcatgcacca
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601 cctaaaaaag ttgcatttac tgaactaat cccgaaattc atcattatcc agataataga
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721 catcaatgga aagatccttc tcaattcaat tattctgatg aagatacaaaa tgcttcagtt
781 ccaccaacac caccacttca tacgacgaaa cctacttttg cgcaattatt gaacaaaaac
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961 agtaagaatg tctcagatat ggatctgcat ttacaaaact tgcaagacgc ttcgaaaaac
1021 aaaactaatg aaaatattca caatttgta tttgctttaa aagcaccaaa gaatgatatt
1081 gaaaacccat taaactcatt gactaacgca gatattctgt taagatcatc tggatcatca
1141 caatcgatca tacaatcttt gaggaatgac aatcgtgtct tggaatcagt gcttgggtca
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1621 gagtttgca aggttaccat caagaaagaa ccagttctgg ccacggaaat aaaagctcca
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1921 agagaagata atgatgat atctcgtttt gagaaatcag atattttgaa cgacgtatca
1981 cagacttctg atattattgg tgacaaatat ggaaactcat caagtgaat aaccaccaaa
2041 acattagcac cccaagatc ggacaacaat gacaaggaga attctaaatc ttggaagat
2101 ccagctaata atgaatcatt gcaacaacaa ttggaggtag cgcatacaaa agaagatgat
2161 agcattttag ccaactcgtc caatattgct ccacctgaag aattgacttt gcccgtagt
2221 gaagcaaagc attattcatc ttttaatgac gtgacaaaaa cttttgatgc atactcaagc
2281 tttgaagagt cattatctag agagcacgaa actgattcaa aaccaattaa ttcatatca
2341 atttggcata aacaagaaaa gcagaagaaa catcaaattc ataaagttcc aactaaacag
2401 atcattgcta gttatcaaca atacaaaaac gaacaagaat ctctgtttac tagtgataaa
2461 gtgaaaatcc caaatgccat acaattcaag aaattcaaag aggtaatgt catgtcaaga
2521 agagtgttta gtccagacat ggatgatttg aatgtatctc aatttttacc agaattatct
2581 gaagactctg gatttaaaga ttgaatttt gccaaactact ccaataacac caacagacca
2641 agaagtttta ctcaattgag cactaaaaat gtcttgcga atattgataa cgatccta

FIGURE 2A

2701 gttgtgaac ctctgaacc gaaatcatat gctgaaatta gaaatgctag acggttatca
 2761 gctaataagg cagcgccaaa tcaggcacca ccattgccac cacaacgaca accatcttca
 2821 actcgttcca attcaaataa acgagtgtcc agatttagag tgcccacatt tgaaattaga
 2881 agaacttctt cagcattagc acctgtgac atgtataatg atattttga tgatttcggt
 2941 gcgggttcta aaccaactat aaaggcagaa ggaatgaaaa cattgccaaag tatggataaa
 3001 gatgatgtca agaggatttt gaatgcaaag aaagggtgtga ctcaagatga atatataaat
 3061 gccaaacttg ttgatcaaaa acctaaaaag aattcaattg tcaccgatcc cgaagaccga
 3121 tatgaagaat tacaacaaac tgcccttata cacaatgcc aattgattc aagtatttat
 3181 ggccgaccag actccatttc taccgacatg ttgccttate ttagtgtga attgaaaaaa
 3241 ccacctacgg ctctattatc tctgtatctg ttgtttatgg aacaagaagt acatccgtta
 3301 agatcaaact ctgttttgtt tcaccagggg gcaggagcag caactaatc tcaatgtta
 3361 ccagagccag attttgaatt aatcaattca cctgctagaa atgtgtctga caacagtgtat
 3421 aatgtcgcca tcagtgttaa tgctagtact attagtttta accaattgga tatgaatttt
 3481 gatgaccaag ctacaattgg tcaaaaaatc caagagcaac ctgcttcaaa atccgccaat
 3541 actgttcgtg gtgatgtga tggattggcc agtgcacctg aaacaccaag aactctacc
 3601 aaaaaggagt ccatatcaag caagcctgcc aagctttctt ctgcctcccc tagaaaatca
 3661 ccaattaaga ttggttcacc agtctgagtt attaaagaaa atggatcaat tcttggtcatt
 3721 gaaccaatcc caaaagccac tcacaaaccg aagaaatcat tccaaggaaa cgagatttca
 3781 aaccataaag tacgagatgg tgaatttca ccaagctccg gatcagagca tcaacagcat
 3841 aatcctagta tggtttctgt tcttcacag tatactgatg ctacttcaac ggttcagat
 3901 gaaaacaaag atgttcaaca caagcctcgt gaaaagcaaa agcaaaagca tcaccatcgc
 3961 catcatcatc atcatcataa acaaaaaact gatattccgg gtgtgttga tgatgaaatt
 4021 cctgatgtag gattacaaga acgaggcaaa ttattcttta gagtttagg aattaagaat
 4081 atcaatttac ccgatattaa tactacacaa ggaagattca cttaacggtt ggataatgga
 4141 gtgcattgtg ttactacacc agaatacaac atggacgacc ataattgtgc cataggttaa
 4201 gaatttgagt tgacagtgc tgattcatta gagtttattt taactttgaa ggcacatcat
 4261 gaaaaacctc gtgttacatt agtagaagtg actgaaaaga aagttgtcaa atcaagaaat
 4321 agattgagtc gattatttgg atcgaaagat attatcacca cgacaaagtt tgtgccact
 4381 gaagtcaaag atacctgggc taataagttt gctcctgatg gttcatttgc tagatgttac
 4441 attgatttac aacaatttga agaccaaact accggtaaag catcacagtt tgatctcaat
 4501 tgttttaag aatgggaaac tatgagtaat ggcaatcaac caatgaaaag aggcaaacct
 4561 tataagattg ctcaattgga agttaaatg ttgtatgttc eacgatcaga tccaagagaa
 4621 atattacca ccagcattag atccgcatat gaaagcatca atgaattaaa caatgaacag
 4681 aataattact ttgaagggtt ttacatcaa gaaggaggtg attgtccaat tttaagaaa
 4741 cgtttttca aattaatggg cacttcttta ttggctcata gtgaaatac tcataaaact
 4801 agagccaaaa ttaattatc aaaagttgtt gatttgattt atgttgataa agaaaacatt
 4861 gatcgttcca atcatcgaaa tticagtgtg gtgttattgt tggatcatgc attcaaaatc
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 5041 aatttgatgc ttcaacaaca acaacaaca caacaacaac aaagctccca acagtaattg
 5101 aaaggcttac ttttgatttt ttaattttt attggcaaat atatgccc atttgtattat
 5161 cttttagtct aatagcgttt tcttttttc cagt

FIGURE 2B

Activation of "Subtilisin-like" Proprotein Convertases

Signal peptide	<u>Propeptide</u> Xn-K/R	Inactive Subtilisin D H N S	<u>P-Domain</u> D - H - N <RGD> S Substrate = K/R↓
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The processing or "P-domain" clips the propeptide at the carboxy terminal side of dibasic residues, thereby releasing the propeptide. Exposed D-H-N-S active site residues assume the subtilisin serine protease conformation.

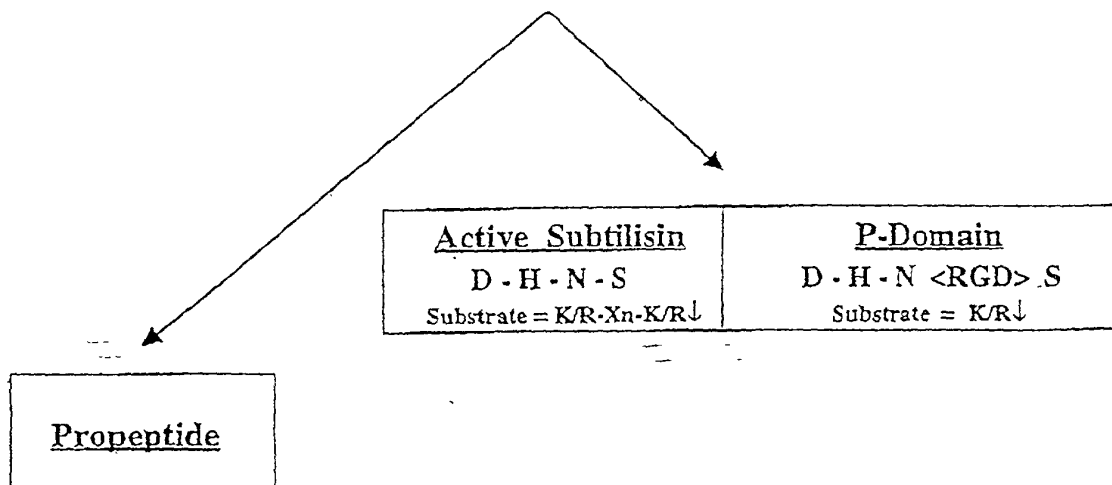


FIG. 3

P Domain Subtilisin Motifs

<u>Kex2</u>	<u>D</u> ₁₇₉	<u>H</u> ₂₁₃	<u>N</u> ₃₁₄	<u>S</u> ₃₇₈ = 199aa
			< <u>R</u> ₃₁₈ <u>GD</u> >	
<u>Furin</u>	<u>D</u> ₃₅₅	<u>H</u> ₃₉₅	<u>N</u> ₄₇₉	<u>S</u> ₅₅₅ = 200aa
			< <u>R</u> ₄₉₈ <u>GD</u> >	
<u>Int1p</u>	<u>D</u> ₁₀₂₂	<u>H</u> ₁₀₆₄	<u>N</u> ₁₁₄₆	<u>S</u> ₁₂₃₆ = 215aa
			< <u>R</u> ₁₁₄₉ <u>GD</u> >	
<u>CD18</u>	<u>D</u> ₂₉₀	<u>H</u> ₃₀₉	<u>N</u> ₃₅₁	<u>S</u> ₄₉₀ = 200aa
			< <u>R</u> ₃₉₇ <u>GD</u> >	
<u>C3</u>	<u>D</u> ₁₂₄₅	<u>H</u> ₁₂₈₉	<u>N</u> ₁₃₂₇	<u>S</u> ₁₄₃₀ = 185aa
			< <u>R</u> ₁₃₉₃ <u>GD</u> >	
<u>SpeB</u>	<u>D</u> ₁₃₅	<u>H</u> ₁₅₉	<u>N</u> ₂₉₅	<u>S</u> ₃₂₄ = 189aa
			< <u>R</u> ₃₀₇ <u>GD</u> >	
<u>Fibrillin</u>	<u>D</u> ₉₃₀	<u>H</u> ₉₇₁	<u>N</u> ₁₀₅₂	<u>S</u> ₁₁₂₉ = 199aa
			< <u>R</u> ₁₀₅₃ <u>GD</u> >	
<u>EGF</u>	<u>D</u> ₂₁₉	<u>H</u> ₂₈₆	<u>N</u> ₃₁₂	<u>S</u> ₄₀₃ = 184aa
			< <u>R</u> ₃₆₃ <u>GD</u> >	
<u>Fibronectin</u>	<u>D</u> ₁₃₆₅	<u>H</u> ₁₃₉₆	<u>N</u> ₁₄₈₈	<u>S</u> ₁₅₆₅ = 200aa
			< <u>R</u> ₁₅₆₅ <u>GD</u> >	

FIG. 5

T08260"05019660

Comparison of the high affinity heparin-binding site of
Mycobacterium tuberculosis heparin-binding hemagglutinin
adhesin (HBHA) with the proposed heparin-binding site of
Candida albicans Int1p

HBHA	<u>K</u> ₁₈₀ AAA <u>KK</u> APA <u>KK</u> AAA <u>KK</u> ₁₉₅
Int1p	<u>K</u> ₁₅₅ SIM <u>KK</u> ATP <u>K</u> ASP <u>KK</u> ₁₆₉

FIG. 6

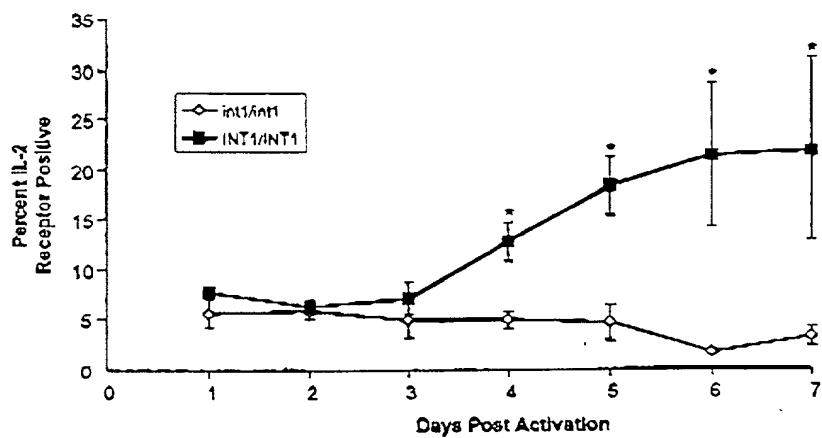


FIG 7

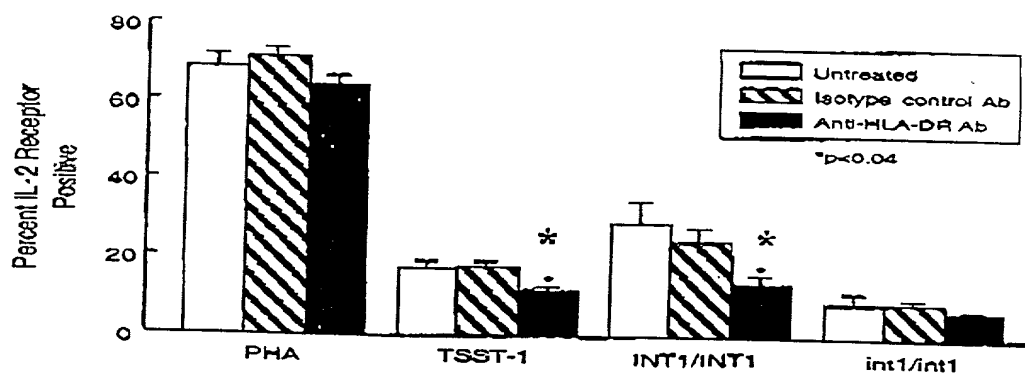


FIG. 8

09964958-092801

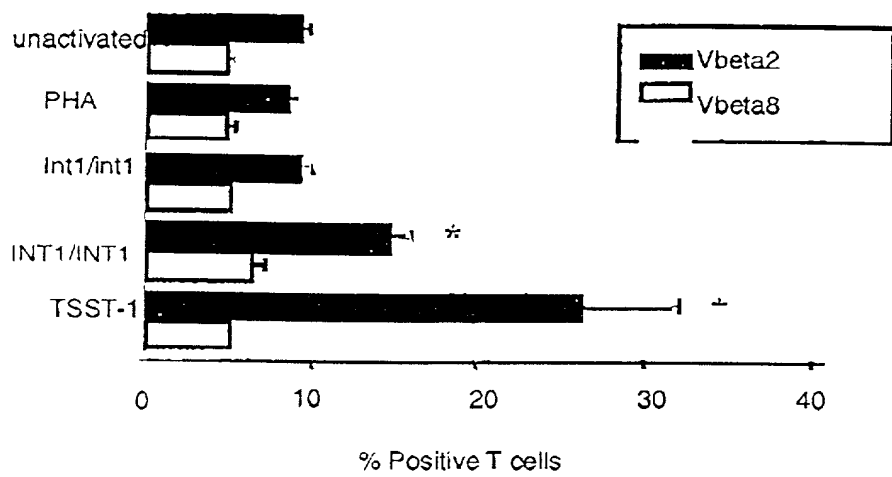


FIG 9

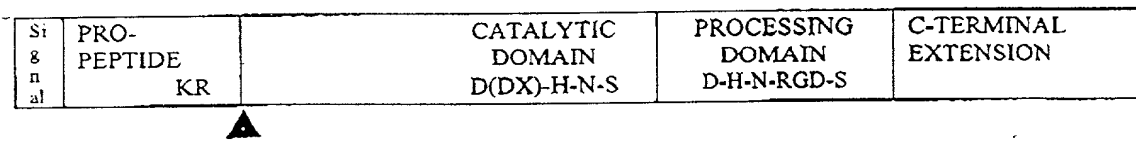


FIG. 10

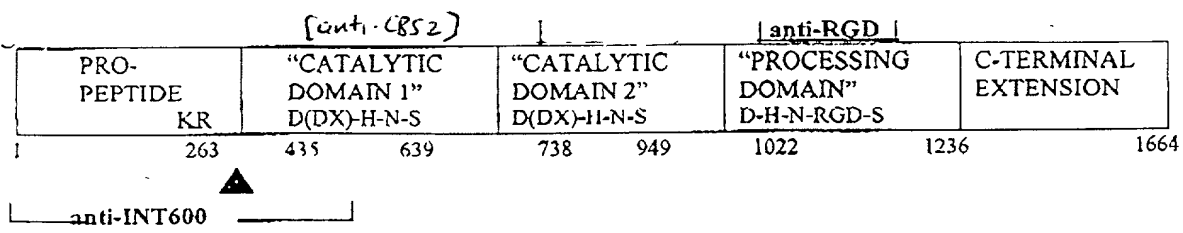


FIG. 11

09964858-092801

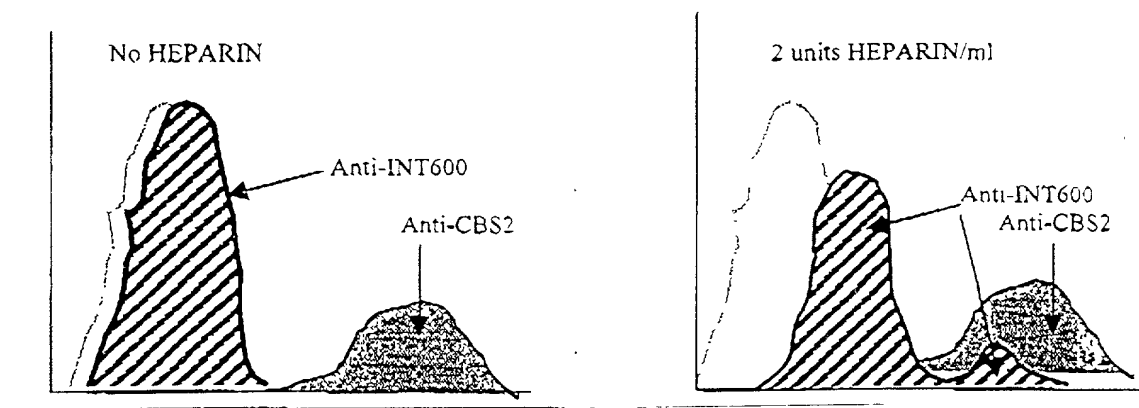


FIG. 12

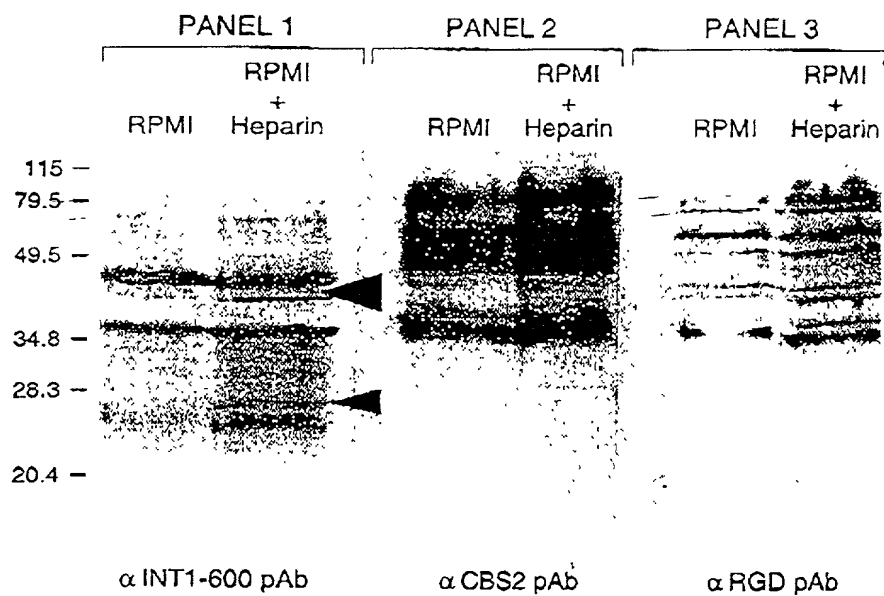


FIG. 13

SILVER STAIN

Anti 6X His WESTERN

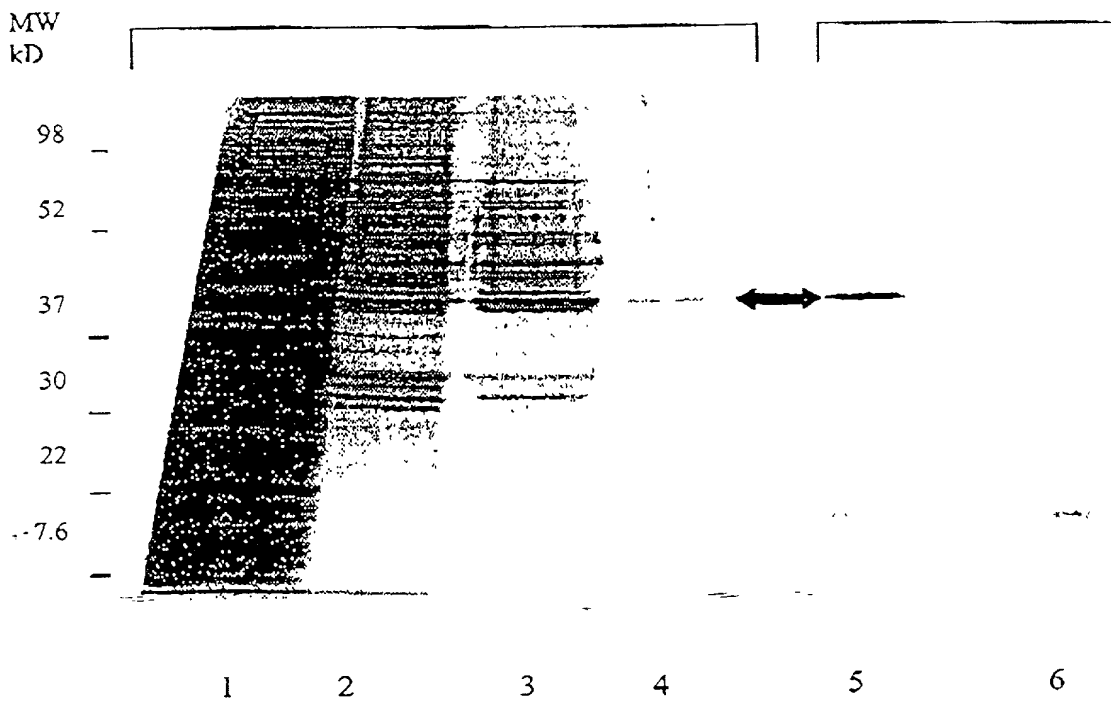


FIG. 14

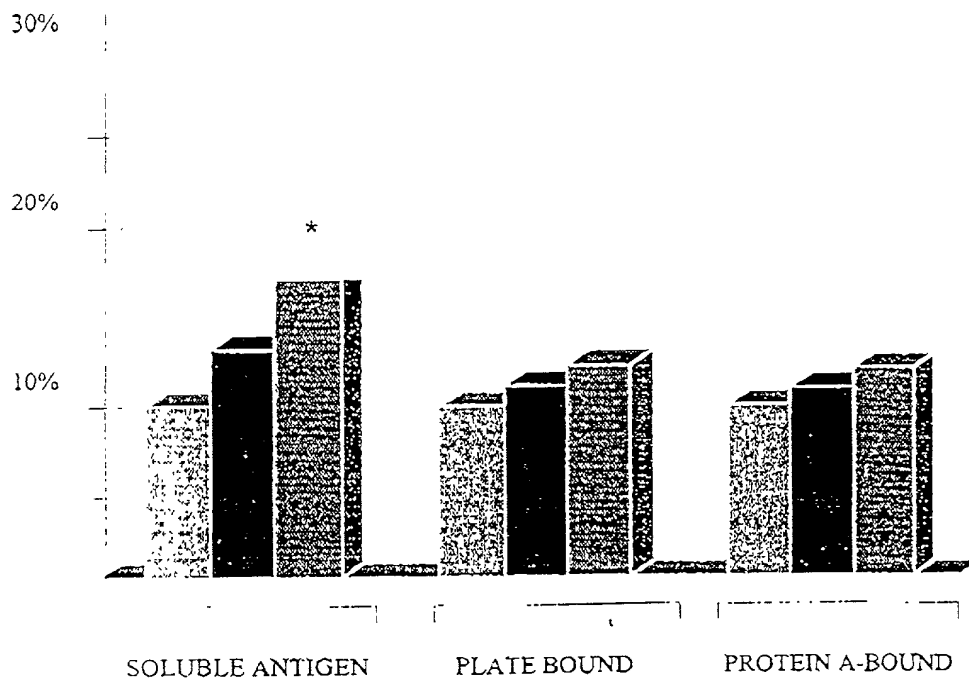


FIG 15

Model for the Participation of Int1p in Candidemia

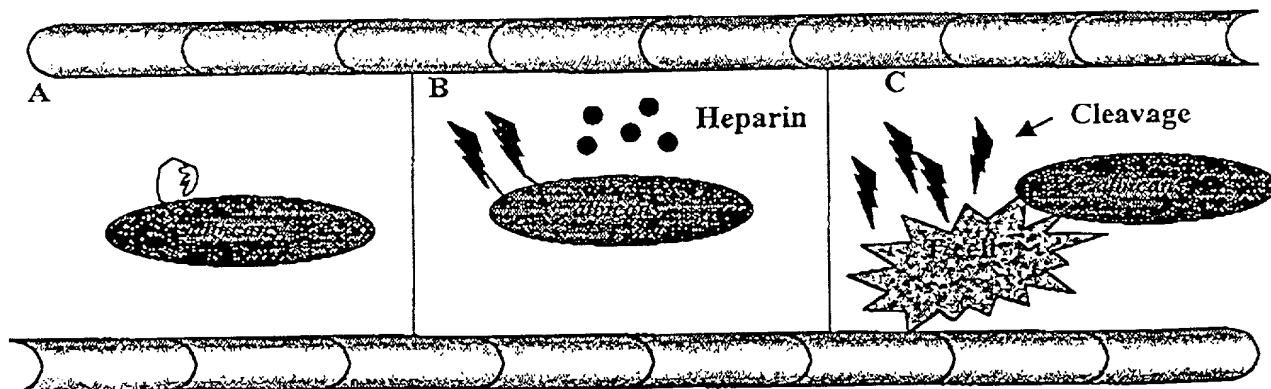


FIG. 16

MHC Class II-Binding Peptides

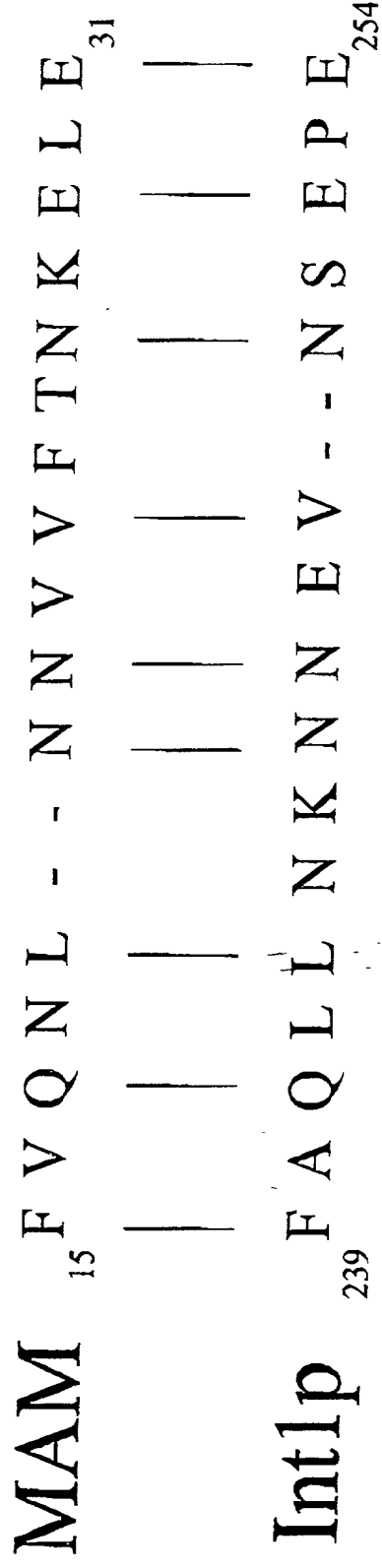


FIG. 17

FIG. 18

Linkage of T Lymphocyte to Antigen-Presenting Cell

